

CLAIMS

1. A tape guide mechanism of a magnetic recording and reproducing apparatus that comprises a movable chassis having a tape guide arm member on which a tape guide is erected and a pair of reels stands thereon and a fixed chassis having a magnetic rotary head thereon, in which when said movable chassis moves to one position of said fixed chassis, loading and unloading of a cassette is performed and when said movable chassis moves to the other position, a magnetic tape is taken out from the reel of the loaded cassette to perform tape loading of said magnetic tape being wound around said magnetic rotary head, wherein

after completing the tape loading, said tape guide is fixed to a predetermined position by a guide receiving member that is provided on said fixed chassis to receive the tape guide, and

in the middle of said tape guide traveling to said predetermined position, said tape guide arm member is made to move along a groove provided in said fixed chassis to determine the position in the chassis plane direction and is guided and moved by the projections provided on the lower surface of said tape guide arm member to determine the position in the height direction.

2. A tape guide mechanism of a magnetic recording and reproducing apparatus according to claim 1, wherein

said tape guide is fixed to a predetermined position by means of tension of the magnetic tape loaded onto said tape guide.

3. A tape guide mechanism of a magnetic recording and reproducing apparatus according to claim 1, wherein

said tape guide is fixed to a predetermined position by means of tension of the magnetic tape loaded onto said tape guide; and

said guide receiving portion has a groove receiving said tape guide arm member and is provided with projections on the lower surface thereof, and when tension of the magnetic tape loaded onto said tape guide is applied, the upper surface of said tape guide arm member comes in contact with the projections on the lower surface of said guide receiving portion to fix said tape guide to a predetermined position.

4. A tape guide mechanism of a magnetic recording and reproducing apparatus according to claim 1, wherein

on said movable chassis a convex portion having a diameter larger than that of a fulcrum shaft is provided, on the convex portion the fulcrum shaft is erected, a retainer shaft having a diameter smaller than that of the fulcrum shaft is provided and an engaging portion having a diameter smaller than that of the fulcrum shaft and larger than that of the retainer shaft is joined;

a bearing hole having approximately the same diameter as that of the fulcrum shaft is bored in said tape guide arm member;

a plate having an engaging hole including an insertion hole where the engaging portion is inserted and a retainer hole that is provided at an end of the insertion

hole to be joined and that has a diameter smaller than that of the insertion hole;

the engaging portion of said movable chassis is inserted through a bearing hole of said tape guide arm member so that the bearing hole is engaged with the fulcrum shaft, the engaging portion protruding on the upper surface of said tape guide arm member is inserted into the insertion hole of the engaging portion of said plate, and said plate is slid in the major axis direction of the retainer elliptical hole to insert and fix the retainer shaft into the retainer elliptical hole; and

said tape arm guide arm member is pressed by said plate whose movement in the upward direction is restrained by said engaging portion.